

Figure 1A

Murine Soluble RAGE_FC

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1  ATGCCAGCGG GGACAGCAGC TAGAGCCTGG GTGCTGGTTC TTGCTCTATG
51  GGGAGCTGTA GCTGGTGGTC AGAACATCAC AGCCCGGATT GGAGAGCCAC
101 TTGTGCTAAG CTGTAAGGGG GCCCCTAAGA AGCCGCCCCA GCAGCTAGAA
151 TGGAAACTGA ACACAGGAAG AACTGAAGCT TGGAAGGTCC TCTCTCCCCA
201 GGGAGGCCCC TGGGACAGCG TGGCTCAAAT CCTCCCCAAT GGTTCCTCC
251 TCCTTCCAGC CACTGGAATT GTCGATGAGG GGACGTTCGG GTGTCGGGCA
301 ACTAACAGGC GAGGGAAGGA GGTCAAGTCC AACTACCGAG TCCGAGTCTA
351 CCAGATTCCT GGGAAGCCAG AAATTGTGGA TCCTGCCTCT GAACTCACAG
401 CCAGTGTCCC TAATAAGGTG GGGACATGTG TGTCTGAGGG AAGCTACCCT
451 GCAGGGACCC TTAGCTGGCA CTTAGATGGG AACTTCTGA TTCCCGATGG
501 CAAAGAAACA CTCGTGAAGG AAGAGACCAG GAGACACCCT GAGACGGGAC
551 TCTTTACACT GCGGTCAGAG CTGACAGTGA TCCCCACCCA AGGAGGAACC
601 ACCCATCCTA CCTTCTCCTG CAGTTTCAGC CTGGGCCTTC CCCGGCGCAG
651 ACCCCTGAAC ACAGCCCCTA TCCAACCTCC AGTCAGGGAG CCTGGGCCTC
701 CAGAGGGCAT TCAGCTGTTG GTTGAGCCTG AAGGTGGAAT AGTCGCTCCT
751 GGTGGGACTG TGACCTTGAC CTGTGCCATC TCTGCCCAGC CCCCTCCTCA
801 GGTCCACTGG ATAAAGGATG GTGCACCCTT GCCCCTGGCT CCCAGCCCTG
851 TGCTGCTCCT CCCTGAGGTG GGGCACGCGG ATGAGGGCAC CTATAGCTGC
901 GTGGCCACCC ACCCTAGCCA CGGACCTCAG GAAAGCCCTC CTGTCAGCAT
951 CAGGGTCACA GAAACCGGCG ATGAGGGGCC AGCTGAAGGC TCTGTGGGTG
1001 AGTCTGGGCT GGGTACGCTA GCCCTGGCCG AGCCCCGCGG ACCGACAATC
1051 AAGCCCTGTC CTCCATGCAA ATGCCCAGGT AAGTCACTAG ACCAGAGCTC
```

Figure 1A Continued

1101 CACTCCCGGG AGAATGGTAA GTGCTATAAA CATCCCTGCA CTAGAGGATA
1151 AGCCATGTAC AGATCCATTT CCATCTCTCC TCATCAGCAC CTAACCTCGA
1201 GGGTGGACCA TCCGTCTTCA TCTTCCCTCC AAAGATCAAG GATGTACTCA
1251 TGATCTCCCT GAGCCCCATA GTCACATGTG TGGTGGTGGA TGTGAGCGAG
1301 GATGACCCAG ATGTCCAGAT CAGCTGGTTT GTGAACAACG TGGAAGTACA
1351 CACAGCTCAG ACACAAACCC ATAGAGAGGA TTACAACAGT ACTCTCCGGG
1401 TGGTCAGTGC CCTCCCCATC CAGCACCAGG ACTGGATGAG TGGCAAGGCT
1451 TTCGCATGCG CCGTCAACAA CAAAGACCTC CCAGCGCCCA TCGAGAGAAC
1501 CATCTCAAAA CCCAAAGGTG AGAGCTGCAG CCTGACTGCA TGGGGGCTGG
1551 GATGGGCATA AGGATAAAGG TCTGTGTGGA CAGCCTTCTG CTTCAGCCAT
1601 GACCTTTGTG TATGTTTCTA CCCTCACAGG GTCAGTAAGA GCTCCACAGG
1651 TATATGTCTT GCCTCCACCA GAAGAAGAGA TGAATAAGAA ACAGGTCACT
1701 CTGACCTGCA TGGTCACAGA CTTTCATGCCT GAAGACATTT ACGTGGAGTG
1751 GACCAACAAC GGGAAAACAG AGCTAAACTA CAAGAACACT GAACCAGTCC
1801 TGGACTCTGA TGGTTCTTAC TTCATGTACA GCAAGCTGAG AGTGGAAAAG
1851 AAGAACTGGG TGGAAAGAAA TAGCTACTCC TGTTTCAGTG TCCACGAGGG
1901 TCTGCACAAT CACCACACGA CTAAGAGCTT CTCCCGGACT CCGGGTAAAT
1951 GAGCTCAGCA CCCACAAAAC TCTCAGGTCC AAAGAGACAC CCACACTCAT
2001 CTCCATGCTT CCCTTGTATA AATAAAGCAC CCAGCAATGC CTGGGACCAT
2051 GTAATAG

Figure 1B

Murine Soluble RAGE_FC

1	MPAGTAARAW	VLVLALWGAV	AGGQNITARI	GEPLVLSCKG	APKKPPQQLE
51	WKLNTGRTEA	WKVLSPQGGP	WDSVAQILPN	GSLLLPATGI	VDEGTFRERA
101	TNRRGKEVKS	NYRVRVYQIP	GKPEIVDPAS	ELTASVPNKV	GTCVSEGSYP
151	AGTLSWHLDG	KLLIPDGKET	LVKEETRRHP	ETGLFTLRSE	LTVIPTQGGT
201	THPTFSCSFS	LGLPRRRPLN	TAPIQLRVRE	PGPPEGIQLL	VEPEGGIVAP
251	GGTVTLTCAI	SAQPPPQVHW	IKDGAPLPLA	PSPVLLLPEV	GHADEGTYSY
301	VATHPSHGPQ	ESPPVSIRVT	ETGDEGPAEG	SVGESGLGTL	ALA

Figure 2A:

Murine solTNFR_{II}_FC

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1  ATGGCGCCCG CCGCCCTCTG GGTCGCGCTG GTCTTCGAAC TGCAGCTGTG
51  GGCCACCGGG CACACAGTGC CCGCCCAGGT TGTCTTGACA CCCTACAAAC
101 CGGAACCTGG GTACGAGTGC CAGATCTCAC AGGAATACTA TGACAGGAAG
151 GCTCAGATGT GCTGTGCTAA GTGTCCTCCT GGCCAATATG TGAAACATTT
201 CTGCAACAAG ACCTCGGACA CTGTGTGTGC GGACTGTGAG GCAAGCATGT
251 ATACCCAGGT CTGGAACCAG TTTCGTACAT GTTTGAGCTG CAGTTCTTCC
301 TGTAGCACTG ACCAGGTGGA GACCCGCGCC TGCACTAAAC AGCAGAACCG
351 AGTGTGTGCT TGCGAAGCTG GCAGGTACTG CGCCTTGAAA ACCCATTTCTG
401 GCAGCTGTCTG ACAGTGCATG AGGCTGAGCA AGTGCGGCCC TGGCTTCGGA
451 GTGGCCAGTT CAAGAGCCCC AAATGGAAAT GTGCTATGCA AGGCCTGTGC
501 CCCAGGGACG TTCTCTGACA CCACATCATC CACAGATGTG TGCAGGCCCC
551 ACCGCATCTG TAGCATCCTG GCTATTCCCG GAAATGCAAG CACAGATGCA
601 GTCTGTGCGC CCGAGTCCCC AACTCTAAGT GCCATCCCAA GGACACTCTA
651 CGTATCTCAG CCAGAGCCCA CAAGATCCCA ACCCCTGGAT CAAGAGCCAG
701 GGCCCAGCCA AACTCCAAGC ATCCTTACAT CGTTGGGTTC AACCCCCATT
751 ATTGAACAAA GTACCAAGGG TGGCGAGCCC CGCGGACCGA CAATCAAGCC
801 CTGTCCTCCA TGCAAATGCC CAGGTAAGTC ACTAGACCAG AGCTCCACTC
851 CCGGGAGAAT GGTAAGTGCT ATAAACATCC CTGCACTAGA GGATAAGCCA
901 TGTACAGATC CATTTCATC TCTCCTCATC AGCACCTAAC CTCGAGGGTG
951 GACCATCCGT CTTCATCTTC CCTCCAAAGA TCAAGGATGT ACTCATGATC
1001 TCCCTGAGCC CCATAGTCAC ATGTGTGGTG GTGGATGTGA GCGAGGATGA
1051 CCCAGATGTC CAGATCAGCT GGTTTGTGAA CAACGTGGAA GTACACACAG
```

Figure 2A Continued

1101 CTCAGACACA AACCCATAGA GAGGATTACA ACAGTACTCT CCGGGTGGTC
1151 AGTGCCCTCC CCATCCAGCA CCAGGACTGG ATGAGTGGCA AGGCTTTCGC
1201 ATGCGCCGTC AACAAACAAAG ACCTCCCAGC GCCCATCGAG AGAACCATCT
1251 CAAAACCCAA AGGTGAGAGC TGCAGCCTGA CTGCATGGGG GCTGGGATGG
1301 GCATAAGGAT AAAGGTCTGT GTGGACAGCC TTCTGCTTCA GCCATGACCT
1351 TTGTGTATGT TTCTACCCTC ACAGGGTCAG TAAGAGCTCC ACAGGTATAT
1401 GTCTTGCCCTC CACCAGAAGA AGAGATGACT AAGAAACAGG TCACTCTGAC
1451 CTGCATGGTC ACAGACTTCA TGCCTGAAGA CATTTACGTG GAGTGGACCA
1501 ACAACGGGAA AACAGAGCTA AACTACAAGA AACTGAACC AGTCCTGGAC
1551 TCTGATGGTT CTTACTTCAT GTACAGCAAG CTGAGAGTGG AAAAGAAGAA
1601 CTGGGTGGAA AGAAATAGCT ACTCCTGTTC AGTGGTCCAC GAGGGTCTGC
1651 ACAATCACCA CACGACTAAG AGCTTCTCCC GGACTCCGGG TAAATGAGCT
1701 CAGCACCCAC AAAACTCTCA GGTCCAAAGA GACACCCACA CTCATCTCCA
1751 TGCTTCCCTT GTATAAATAA AGCACCCAGC AATGCCTGGG ACCATGTAAT
1801 AGGAATTATC

Figure 2B

murine solTNFR_{II}_FC

MAPAALWVAL	VFELQLWATG	HTVPAQVVL	PYKPEPGYEC	QISQEYYDRK	51
AQMCCAKCPP	GQYVKHFCNK	TSDTVCADCE	ASMYTQVWNQ	FRTCLSCSSS	101
CSTDQVETRA	CTKQQNRVCA	CEAGRYCALK	THSGSCRQCM	RLSKCGPGFG	151
VASSRAPNGN	VLCKACAPGT	FSDTTSSTDV	CRPHRCSIL	AIPGNASTDA	201
VCAPESPTLS	AIPRTLYVSQ	PEPTRSQPLD	QEPGPSQTPS	ILTSLGSTPI	251
IEQSTKGG					

Figure 3A

An example of a Human RAGE-LBE fused to an Fc element (amino acid sequence)

MAAGTAVGAWVLVLSLWGAVVGAQNITARIGEPLVLKC
KGAPKKPPQRLEWKLNTGRTEAWKVLSPQGGGPPWDSVA
RVLPNGSLFLPAVGIQDEGIFRCQAMNNRNGKETKSNYRV
RVYQIPEKPEIVDSASELTAGVPNKVGTCVSEGSYPAGTL
SWHLDGKPLVLNEKGVSVKEQTRRHPETGLFTLQSELMV
TPARGGDP RPTFSCSFSPGLPRHRALRTAPIQPRVWEPVPL
EEVQLVVEPEGGAVAPGGT VTLTCEVPAQPSPQIHWMKD
GVPLPLPPSPVLILPEIGPQDQGTYS CVATHSSHGPPQESRA
VSISIIIEPGEEGPTAGSVGGSGGLGTLALACAGSGSGSGEPK
SCDKTHTCPPCPAPEALGAPSVFLFPDKPKDTLMISRTPE
VTCVVVDVSHEDPEVKFNWYVDGVEXQNAKTKPREEQY
NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT
ISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENKCKTTPPVLDSDGSFFLYSKLTVDKS
RWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK Stop

Figure 3B

An example of a Human RAGE-LBE fused to an Fc element (nucleic acid sequence)

atggcagccg	gaacagcagt	tggagcctgg	gtgctggtcc	tcagtctgtg
gggggcagta	gtaggtgctc	aaaacatcac	agcccggatt	ggcgagccac
tggtgctgaa	gtgtaagggg	gcccccaaga	aaccacccca	gcggctggaa
tggaaactga	acacaggccg	gacagaagct	tggaagggtcc	tgtctcccca
gggaggaggc	ccctgggaca	gtgtggctcg	tgtccttccc	aacggctccc
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gcaatgaaca	ggaatggaaa	ggagaccaag	tccaactacc	gagtcctgtg
ctaccagatt	cctgagaagc	cagaaattgt	agattctgcc	tctgaactca
cggctggtgt	tccaataaag	gtggggacat	gtgtgtcaga	gggaagctac
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ggctcttcac	actgcagtcg	gagctaattg	tgaccccagc	ccggggagga
gatccccgtc	ccaccttctc	ctgtagcttc	agcccaggcc	ttccccgaca
ccgggccttg	cgcacagccc	ccatccagcc	ccgtgtcttg	gagcctgtgc
ctctggagga	ggtccaattg	gtggtggagc	cagaagggtg	agcagtagct
cctggtggaa	ccgtaaccct	gacctgtgaa	gtccctgccc	agccctctcc
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ctgtgctgat	cctccctgag	atagggcctc	aggaccaggg	aacctacagc
tgtgtggcca	cccattccag	ccacgggccc	caggaaagcc	gtgctgtcag
catcagcatc	atcgaaccag	gcgaggaggg	gccaactgca	ggctctgtgg
gaggatcagg	gctgggaact	ctagccctgg	cctgcgcagg	tagcggctcc
ggaagtgggg	agcccaaadc	ttgtgacaaa	actcacacat	gcccaccgtg

Figure 3B Continued

cccagcacct	gaagccctgg	gggcaccgtc	agtcttcctc	ttccccgaca
aacccaagga	caccctcatg	atctcccgga	cccctgaggt	cacatgcgtg
gtggtggacg	tgagccacga	agaccctgag	gtcaagttca	actggtacgt
ggacggcgtg	gaggigcaga	atgccaaagac	aaagccgcgg	gaggagcagt
acaacagcac	gtaccgtgtg	gtcagcgtcc	tcaccgtcct	gcaccaggac
tggctgaatg	gcaaggagta	caagtgcaag	gtctccaaca	aagccctccc
agcccccatc	gagaaaacca	tctccaaagc	caaagggcag	ccccgagaac
cacaggtgta	caccctgccc	ccatcccggg	aggagatgac	caagaaccag
gtcagcctga	cctgcctggt	caaaggcttc	tatcccagcg	acatcgccgt
ggagtgggag	agcaatgggc	agccggagaa	caagtgcaag	accacgcctc
ccgtgctgga	ctccgacggc	tccttcttcc	tctatagcaa	gctcaccgtg
gacaagagca	ggtggcagca	ggggaacgtc	ttctcatgct	ccgtgatgca
tgaggctctg	cacaaccact	acacgcagaa	gagcctctcc	ctgtccccgg
gtaaatgagt	g			

mSoIRAGE-Fc Decreases Paw Scores

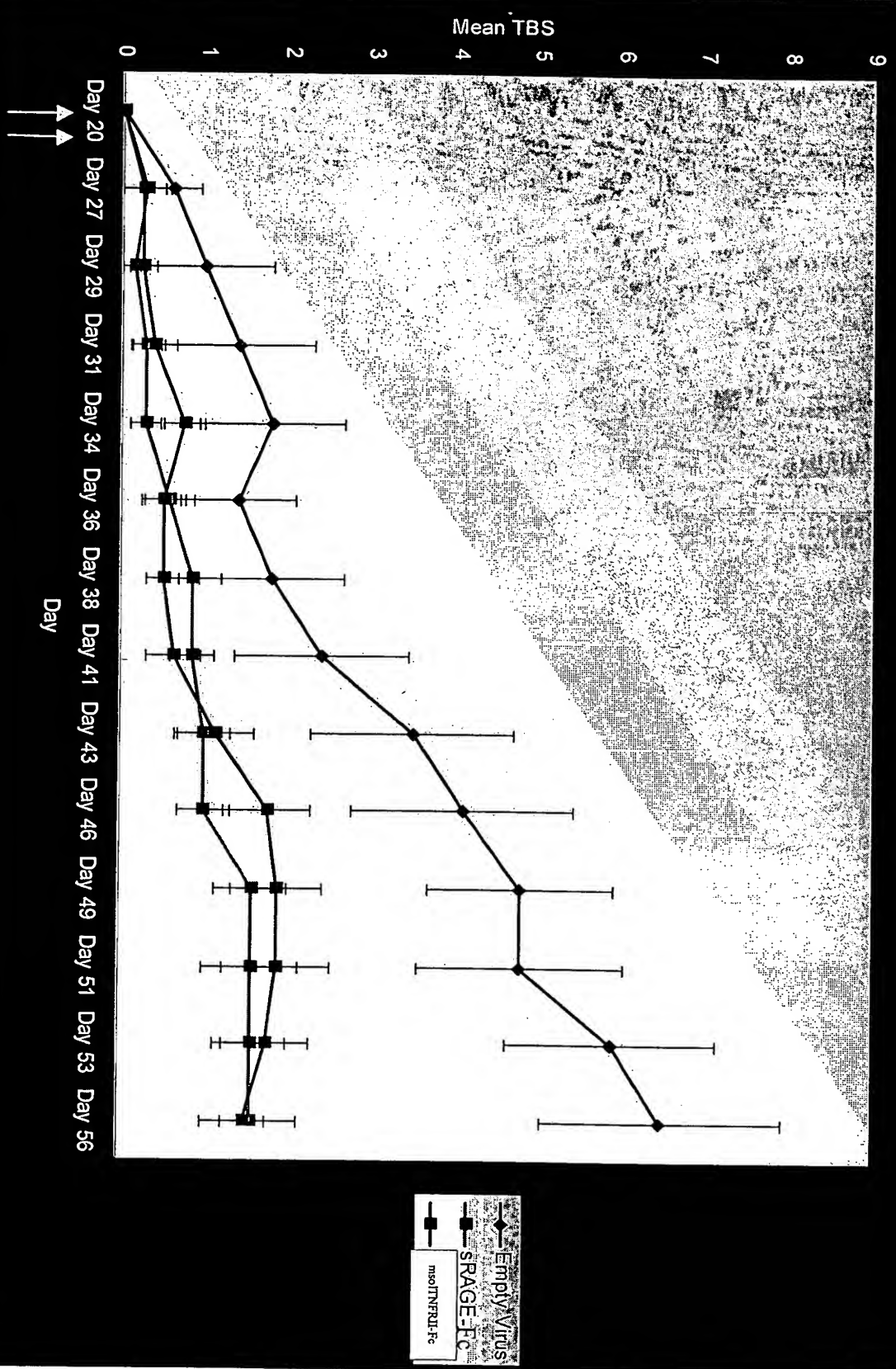


Figure 4

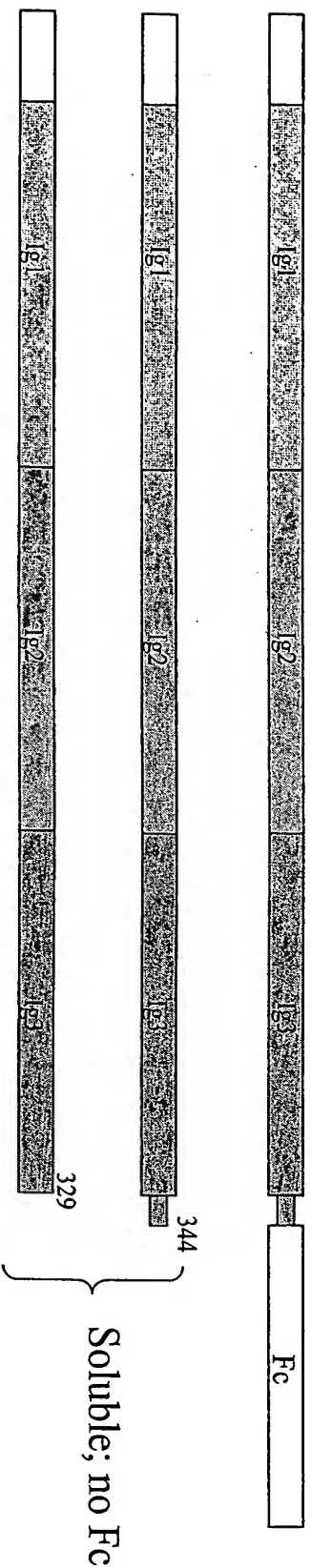
Exon Organization



Peptide Constructs



Signal peptide



Stop at amino acid 321
with and without Fc

Figure 5

Figure 6

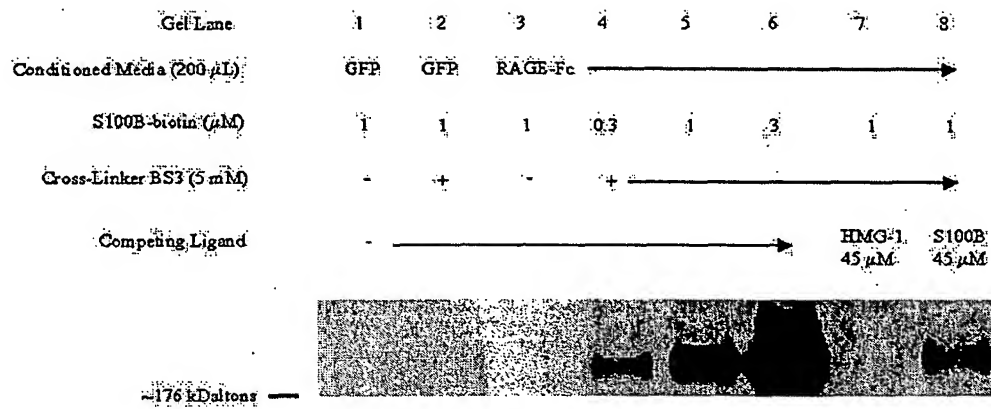


Figure 7

Human RAGE amino acid sequence (full length precursor sequence)

```
1 maagtavgaw vlvslwgav vgaqnitari geplvlkckg apkkppqrle wkIntgrtea
61 wkvlsppggg pwdsvarvlp ngslflpavg iqdegifrcq amnrngketk snyrvrvyqi
121 pgkpeivdsa seltagvpnk vgtcvsegsy pagtlswld gkplvpnekq vsvkeqtrrh
181 petglftlqs elmvtpargg dprptfscsf spglprhral rtapiqprvw epvpleevql
241 vvepeggava pggvtlttce vpaqpspqih wmkdgvplpl ppspvililpe igpqdqgtys
301 cvathsshgp qesravsis iepgeegpta gsvggsglgt lalalgilgg lgtaalligv
361 ilwqrrrrg eerkapenqe eeeeraelnq seepeagess tggp
```

Figure 8

Human RAGE nucleic acid cDNA sequence

```
1 gtccttgga ggaagcagga tggcagccgg aacagcagtt ggagcctggg tgctggctct
61 cagtctgtgg ggggcagtag taggtgctca aaacatcaca gcccgattg gcgagccact
121 ggtgctgaag tgtaaggggg cccccaagaa accaccccag cggctggaat ggaaactgaa
181 cacaggccgg acagaagctt ggaaggtcct gtctccccag ggaggaggcc cctgggacag
241 tgtggctcgt gtccttccca acggctccct ctctcttccg gctgtcggga tccaggatga
301 ggggattttc cggtgccagg caatgaacag gaatggaaag gagaccaagt ccaactaccg
361 agtccgtgtc taccagattc ctgggaagcc agaaattgta gattctgcct ctgaactcac
421 ggctggtggt cccaataagg tggggacatg tgtgtcagag ggaagctacc ctgcagggac
481 tcttagctgg cacttgatg ggaagccctt ggtgcctaata gagaaggagg tatctgtgaa
541 ggaacagacc aggagacacc ctgagacagg gctcttcaca ctgcagtcgg agctaattgt
601 gacccagacc cggggaggag atccccgtcc caccttctcc tgtagcttca gcccaggcct
661 tccccgacac cgggccttgc gcacagcccc catccagccc cgtgtctggg agcctgtgcc
721 tctggaggag gtccaattgg tggaggagcc agaaggtgga gcagtagctc ctggtggaac
781 cgtaaccctg acctgtgaag tccctgccc gccctctcct caaatccact ggatgaagga
841 tgggtgtgcc ttgccccttc ccccagccc tgtgctgata ctccctgaga tagggcctca
901 ggaccagggg acctacagct gtgtggccac ccattccagc cacggggccc aggaaagccg
961 tgctgtcagc atcagcatca tcgaaccagg cgaggagggg ccaactgcag gctctgtggg
1021 aggatcaggg ctgggaactc tagccctggc cctggggatc ctgggaggcc tggggacagc
1081 cgccctgctc attgggggtc tcttgtggca aaggcggcaa cgccgaggag aggagaggaa
1141 ggccccagaa aaccaggagg aagaggagga gcgtgcagaa ctgaatcagt cggaggaacc
1201 tgaggcaggc gagagtagta ctggagggcc ttgaggggcc cacagacaga tcccatccat
1261 cagctccctt ttctttttcc ttgaaactgt tctggcctca gaccaactct ctctgtata
1321 atctctctoc tgtataacct caccttgcca agctttcttc tacaaccaga gccccacaa
1381 tgatgattaa acacctgaca catctcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa
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RAGE-LBE-Fc is Secreted by CHO Cells

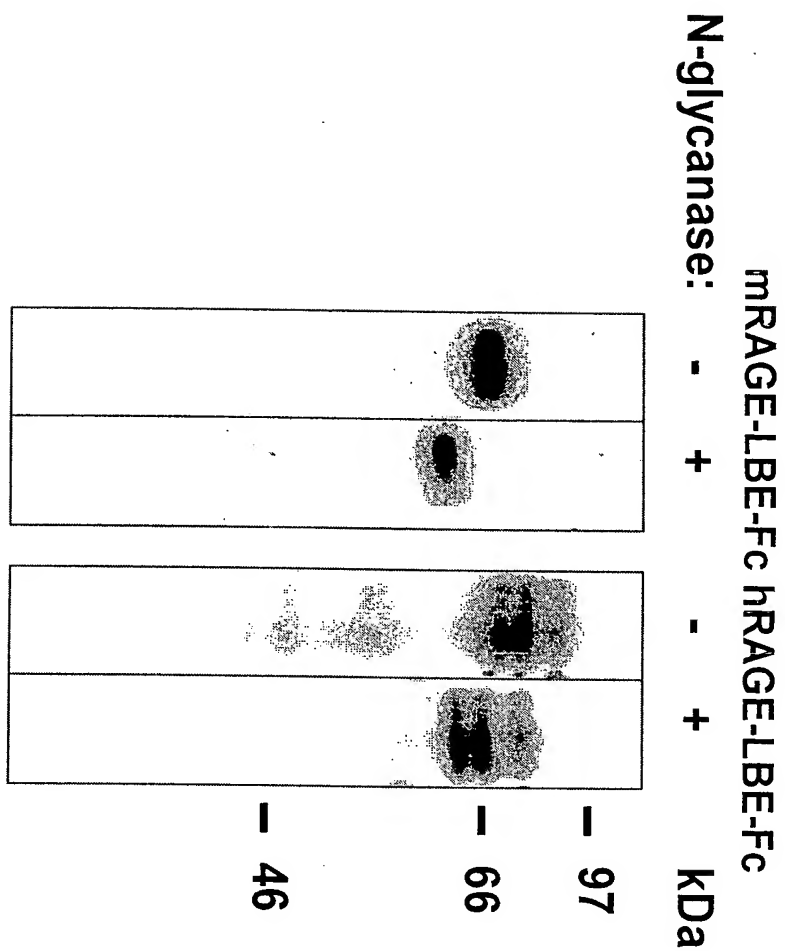


Figure 9

N-terminal Human RAGE Sequence

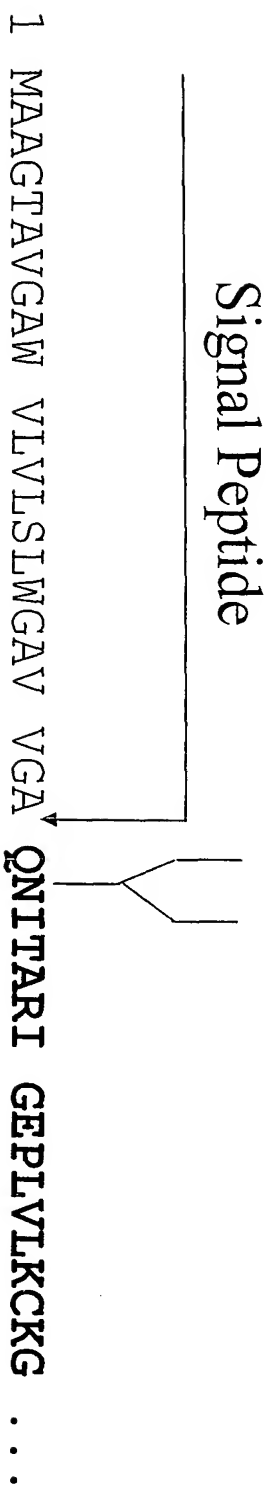


Figure 10